Structural Engineering Guidance No. 10-07

Date: August 5, 2010

Distribution: All Engineering Resources

SUBJECT: REVISED ELECTRICAL CONDUIT DESIGN AND DETAIL GUIDELINES

FOR BRIDGES

Contact: Gregory Sanders

Effective Date: Immediately for All New Jobs Not Turned In To Review Section

EPG Submittal Status: Submitted and Approved

EPG 751.10.4 Conduit Systems has been revised to include new and updated design and detail guidelines for electrical conduit and junction box placements on new and rehabilitation bridges.

Quick Points of Interest:

* No revisions to previous requirements for conduit size restrictions in relation to the quantity of conduits used relative to the location where permitted for use on bridge structures
* Added new placement guidelines for junction boxes for when they will be required to be placed in and on the front face of safety barrier curbs when more than two junction boxes are required on bridge structures
* Added new junction box size requirements in relation to conduit size and location
* Added new setting guidelines for placing conduit considering thermal and bridge movements
* Added the requirement that deflection couplings be used where conduit exits the bridge at wing walls
* Revised conduit and junction box drainage details in accordance with Sec 707
* Added new and revised standard plan notes
* For a complete listing of additions and revisions, log in to EPG using your EPG UserID, go to

EPG 751.10.4 Conduit Systems and click on the “History” tab. For internal personnel only, go to

*T/br-proj/A\_Development/DS Revision Requests* or the *Development Resources Web Page*.